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AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- (Currently Amended) A strain of a micro-organism characterized in that one or more of its NADPH-oxidizing activities have been limited <u>and wherein it has also undergone</u> modifications that favour one or more of its NADP*-reducing enzyme activities.
- (Previously Presented) A strain according to Claim 1 characterized in that
 one or more of its NADPH-oxidizing activities have been limited by the deletion of one or more
 genes coding for at least one of a quinone oxidoreductase and a soluble transhydrogenase.

(Cancelled)

- (Withdrawn) A strain according to Claim 3 characterized in that it has undergone the deletion of one or more genes coding for at least one of a phosphoglucose isomerase and a phosphofructokinase.
- 5. (Withdrawn) A strain according to Claim 1 characterized in that it has also undergone the modification of one or more genes coding for at least one of a dihydrolipoamide dehydrogenase and a glyceraldehyde 3-phosphate dehydrogenase so as to cause it to utilize NADP preferentially.
- 6. (Withdrawn) A strain according to Claim 1 characterized in that it also overexpresses one or more genes coding for a glucose 6-phosphate dehydrogenase, or a 6-phosphogluconolactonase, or a 6-phosphogluconolactonase, or a 6-phosphogluconate dehydrogenase, or an isocitrate dehydrogenase or a membrane-bound transhydrogenase.

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7. (Withdrawn) A strain according to Claim 1 characterized in that it has also undergone the deletion of one or more genes coding for a 6-phosphogluconate dehydratase, or a malate synthase, or an isocitrate lyase or an isocitrate dehydrogenase kinase/phosphatase.

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- (Withdrawn) A strain according to Claim 1, characterized in that it comprises
 one or more endogenous or exogenous genes coding for enzymes involved in the
 biotransformation of a substance of interest.
- (Withdrawn) A strain according to Claim 1, characterized in that it comprises one or more selection marker genes.
- 10. (Withdrawn) A strain according to Claim 1 characterized in that it is selected from the group consisting of Aspergillus sp., Bacillus sp., Brevibacterium sp., Clostridium sp., Corynebacterium sp., Escherichia sp., Gluconobacter sp., Penicillium sp., Pichia sp., Pseudomonas sp., Rhodococcus sp., Saccharomyces sp., Streptomyces sp., Xanthomonas sp. and Candida sp.
- 11. (Previously Presented)

 A method for the preparation of the strain of Claim
 1 comprising deleting one or more genes coding for a quinone oxidoreductase and/or a soluble
 transhydrogenase, and optionally deleting one or more genes coding for a phosphoglucose
 isomerase, or a phosphofructokinase, or a 6-phosphogluconate dehydratase, or a malate synthase,
 or an isocitrate lyase or an isocitrate dehydrogenase kinase/phosphatase, and optionally
 modifying one or more genes coding for at least one of a dihydrolipoamide dehydrogenase and a
 glyceraldehyde 3-phosphate dehydrogenase, so as to cause it to utilize NADP preferentially,
 which deletions and modifications are carried out by appropriate means, and optionally
 overexpressing one or more genes coding for a glucose 6-phosphate dehydrogenase, or a
 6-phosphogluconolactonase, or a 6-phosphogluconate dehydrogenase, or an isocitrate
 dehydrogenase or a membrane transhydrogenase, either by converting the strain by means of an
 appropriate vector containing one or more genes coding for one or more enzymes involved in the
 biotransformation of at least one of a substance of interest and one or more selection marker

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genes, or by modifying the strength of the endogenous promoter or promoters controlling the gene or genes to be overexpressed.

- 12. (Previously Presented) A method for the production of a substance of interest formed by a biosynthesis route of which at least one step is NADPH-dependent characterized in that it comprises the following steps:
- a) growing micro-organisms of the strain of Claim 1 in an appropriate culture medium that favours their growth and contains substances necessary for carrying out biotransformations by fermentation or bioconversion, except NADPH; and
- extracting a substance of interest from the medium and optionally purifying said substance.
- 13. (Withdrawn) The method according to Claim 12 characterized in that the substance of interest is an amino acid, or a vitamin, or a sterol, or a flavonoid, or a fatty acid, or an organic acid, or a polyol or a hydroxyester.